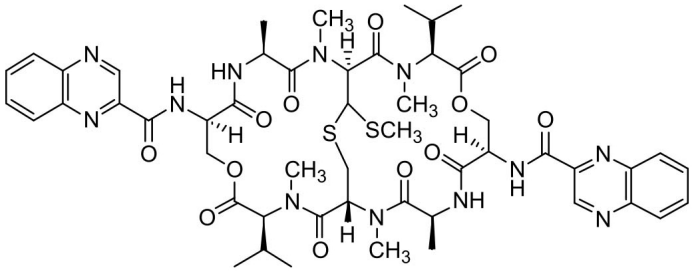
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Code No.: BIA-Q1102

Pack sizes.: 1mg, 5mg

Quinomycin A



Synonyms:
Echinomycin, Actinoleukin, 1491, 59266, X 948, X 53III

Specifications

CAS #	**: 512-64-1**
Molecular Formula	**: C51H64N12O12S2**
Molecular Weight	**: 1101.3**
Source	**: -**
Appearance	**: Fawn to off-white solid**
Purity	**: >99% by HPLC**
Long Term Storage	**: -20°C**
Solubility	**: Soluble in DMF or DMSO. Limited solubility in ethanol and methanol. Poor water solubility.**

Application Notes

Quinomycin A is a cyclic depsipeptide metabolite. Quinomycin A has broad activity against bacteria, fungi and viruses, and has found application as an antitumor agent. Quinomycin A acts by bifunctional intercalation of nucleic acids. Recent research has shown quinomycin A to be an extremely potent inhibitor of hypoxia-inducible factor-1 (HIF-1). This transcription factor plays an essential role in tumor progression and metastasis.

References

1. Serendipitous SAD phasing of an echinomycin-(ACGTACGT)2 bisintercalation complex. Cuesta-Seijo J.A. et al., Acta Crystallogr. D Biol. Crystallogr. 2006, 62, 417.
2. Echinomycin, a small-molecule inhibitor of hypoxia-inducible factor-1 DNA-binding activity. Kong D. et al., Cancer Res. 2005, 65, 9047.
3. Echinomycin and a novel analogue induce apoptosis of HT-29 cells via the activation of MAP kinases pathway. Park J.Y. et al., Pharmacol Res. 2004, 50, 201.